ABSTRACT:

Study of the properties of nuclear isomers is a current research focus. We have studied the systematic 8 + isomeric levels, half-lives, deformation parameters, and reduced transition probabilities between 8 + ? 6 + state of even-even 76Ni to 94Pd nuclei for N = 48 neutrons. The calculated half-lives and quadrupole moments are compared with the experimental values. Moreover, we have studied the systematic B (E2) values, intrinsic quadrupole moments and values of ß/ß 2SPas a function of atomic number (Z) for N = 48 neutrons.